

20/02/2020

Qty. | Description

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DDA 12-10



Note! Product picture may differ from actual product

Product No.: 97722084 DDA 12-10 FC-PVC/E/C-F-32U2U2F

The SMART Digital DDA is a compact positive displacement, diaphragm dosing pump with variable-speed drive (stepper motor) and intelligent control electronics with minimum energy consumption. The SMART Digital Dosing series operates at full stroke length to ensure optimum accuracy, priming and suction, even for high-viscosity or degassing liquids. The duration of each discharge stroke varies according to the capacity set, resulting in optimum smooth and continuous discharge flow.

The click-stop mounting plate allows installation in three different positions without using any additional accessories. The control cube can be turned easily into front, left or right position. The click wheel and the multi-coloured backlit graphical, plain-text LC display make commissioning and operation intuitive. The control elements are protected by a transparent cover.

The sensor-based FlowControl (FC) system detects malfunctions directly in the dosing head and displays them in plain text in the alarm menu, e.g. air bubbles, line burst, overpressure. The integrated flow measurement function (only FCM) measures the actual flow and makes additional monitoring and control equipment redundant (accuracy of \pm 1,5 % of set value in case of trouble-free process). The measured flow is displayed and can be integrated in the process control, e.g. SCADA. Furthermore, the AutoFlowAdapt function (only FCM) automatically adjusts the pump speed according to the process conditions to maintain target flow even at e.g. varying backpressure or air bubbles foaming (degassing drive strategy).

The dosing head is composed of:

- Long lifetime and universal, chemically resistant full-PTFE diaphragm.
- Double ball valves for highest dosing accuracy.
- Deaeration valve for easy start-up.
- Pressure sensor.

Operation modes:

- Manual dosing in ml/h, l/h or gph.
- Pulse control in ml/pulse (incl. memory function).
- Analog control 0/4-20 mA (scalable).
- Pulse-based batch function in ml, I or gal.
- Timer-based batch function (Dosing timer, cycle or week).
- Fieldbus control (Genibus prepared for ProfibusDP E-box).

Other features:

- Auto deaeration during pump standby to avoid breakdowns due to air-locking.
- Two SlowMode steps (anti-cavitation), 50 % (maximum flow: 6 l/h) and 25 % (maximum flow: 3 l/h), e.g. for high-viscosity or degassing liquids.
- Service information display to show when service and which wear-part order number is required.
- Two-step key lock function to protect the pump against unauthorised access.
- Additional display function to provide further information, e.g. the actual mA input signal.
- Counter for total dosed volume (resettable), operating hours, etc.
- Save and load customised settings as well as reload of factory settings.

Signal inputs/outputs:



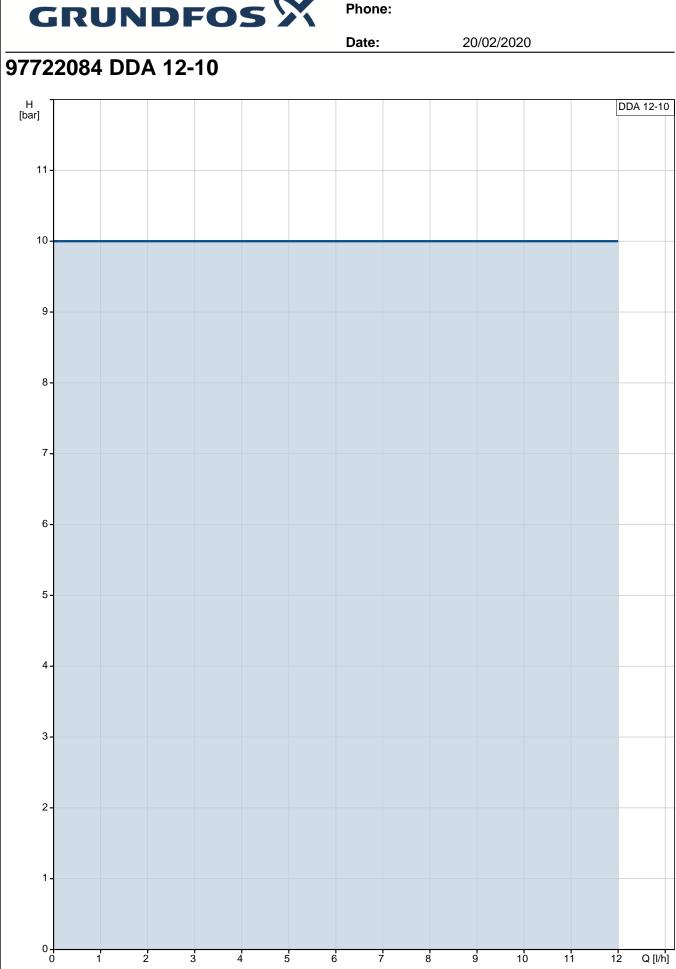
		Date:	20/02/2020
Description			
 Input for pulse, analog 0/4 Input for low-level and em Two potential-free output timer etc.) 	pty-tank signal.		gurable, e.g. alarm, stroke signal, pump dosing
Output analog 0/4-20mA.Fieldbus communication i	nterface (GeniBus,	also for additio	nal Profibus DP E-box to retrofit).
Technical:			
Type key:	DDA 12-10 FC-PV	C/E/C-F-32U2L	J2F
Max. Flow:	12 l/h		
Max. flow in slow mode 50%:	6 l/h		
Max. flow in slow mode 25%:	3 l/h		
Min flow:	12.0 ml/h		
Turn-down ratio:	1:1000		
Approvals on nameplate:	CE,CSA-US,NSF6	1 FAC RCM	
Valve type:	Spring-Loaded (HV		
	500 mPas	-veisio(1)	
Maximum viscosity at 100 %:			
Maximum viscosity in slow mode			
Maximum viscosity in slow mode		6	
Accuracy of repeatability:	1 %		
Materials:			
Dosing head:	PVC (Polyvinyl chl	oride)	
Valve ball:	Ceramic		
Gasket:	EPDM		
Installation:			
Range of ambient temperature:	0 45 °C		
Maximum operating pressure:	10 bar		
Installation set:	NO		
Installation type:	No installation set		
Pump inlet:	4/6, 6/9, 6/12, 9/12	mm	
Pump outlet:	4/6, 6/9, 6/12, 9/12		
Max. Suction lift during operation			
Max. Suction lift during operation Max. Suction lift during priming:			
	C		
Liquid: Pumped liquid:	Water		
Liquid temperature range:	-10 45 °C		
Selected liquid temperature:	20 °C		
Density:	998.2 kg/m³		
Electrical data:			
Maximum power input - P1:	24 W		
Mains frequency:	50 / 60 Hz		
Rated voltage:	1 x 100-240 V		
Enclosure class (IEC 34-5):	IP65 / NEMA 4X		
Length of cable:	1.5 m		
	EU		
I VDE OF CADIE DIUG:			
Type of cable plug: Inrush current:	25A at 230V for 2m	10	
Inrush current:	25A at 230V for 2m	15	
Inrush current: Controls:		13	
Inrush current: Controls: Control variant:	FC	13	
Inrush current: Controls: Control variant: Level control:	FC YES	13	
Inrush current: Controls: Control variant: Level control: Analog input:	FC YES 0/4-20 MA	10	
Inrush current: Controls: Control variant: Level control: Analog input: Pulse control:	FC YES 0/4-20 MA YES	10	
Inrush current: Controls: Control variant: Level control: Analog input: Pulse control: Ext. Stop input:	FC YES 0/4-20 MA YES YES	10	
Inrush current: Controls: Control variant: Level control: Analog input: Pulse control:	FC YES 0/4-20 MA YES	10	



Company name: Created by:

	GRUNDI	FOSX	Created by: Phone:		
			Date:	20/02/2020	
y.	Description				
	Bus communication:	YES			
	Others:				
	Net weight: Gross weight:	2 kg 3 kg			
	Color:	RED			
	Country of origin:	FR			
	Custom tariff no.:	84135040			







		-			
Description	Value	H [bar]			DDA 12-10
General information:		-			
Product name:	DDA 12-10	11 -			
Product No:	97722084	-			
EAN number:	5710622722260	10 -			
	5710622722260				
Price:	2.186,00 GBP	-			
Technical:		9-			
Type key:	DDA 12-10 FC-PVC/E/C-F-32U2U2F	-			
Max. Flow:	12 l/h	8-			
Max. flow in slow mode 50%:	6 l/h				
Max. flow in slow mode 25%:	3 l/h				
Min flow:	12.0 ml/h	7-			
Turn-down ratio:	1:1000	-			
		6-			
Approvals on nameplate:	CE,CSA-US,NSF61,EAC,RCM				
Valve type:	Spring-Loaded (HV-version) 500 mPas	_			
Maximum viscosity at 100 %:	SOU MEAS	5-			
Maximum viscosity in slow mode 50 %:	1300 mPas				
Maximum viscosity in slow mode 25 %:	2500 mPas	4 -			
Accuracy of repeatability:	1 %				
Materials:		3-			
Dosing head:	PVC (Polyvinyl chloride)	-			
Valve ball:	Ceramic				
Gasket:	EPDM	2-			
Installation:		-			
Range of ambient temperature:	0 45 °C	1-			
Maximum operating pressure:	10 bar	-			
Installation set:	NO	-			
Installation type:	No installation set		2 3 4	5 6 7 8	9 10 11 Q [l/h
Pump inlet:	4/6, 6/9, 6/12, 9/12 mm		2 3 7	5 6 7 6	
Pump outlet:	4/6, 6/9, 6/12, 9/12 mm			. 28	0
Max. Suction lift during operation:				<u>G 5/8"</u>	
Max. Suction lift during priming:	3 m				
Liquid:					<u> </u>
Pumped liquid:	Water				
Liquid temperature range:	-10 45 °C		300.5		50
Selected liquid temperature:	20 °C				
Density:	998.2 kg/m ³				
Electrical data:			4 1	- •	
Maximum power input - P1:	24 W	4 <u>xØ 6</u> 105 120		24	161 17
Mains frequency:	50 / 60 Hz	168	-'		
Rated voltage:	1 x 100-240 V				
Enclosure class (IEC 34-5):	IP65 / NEMA 4X				
Length of cable:	1.5 m				
Type of cable plug:	EU				
Inrush current:	25A at 230V for 2ms				
Controls:					
Control variant:	FC				
Control panel:	FC FRONT-MOUNTED				
Level control:	YES				
Analog input:	0/4-20 MA				
Pulse control:	YES				
Ext. Stop input:	YES				
Analog output:	0/4-20 MA				
Output relays:	2				
Bus communication:	YES				

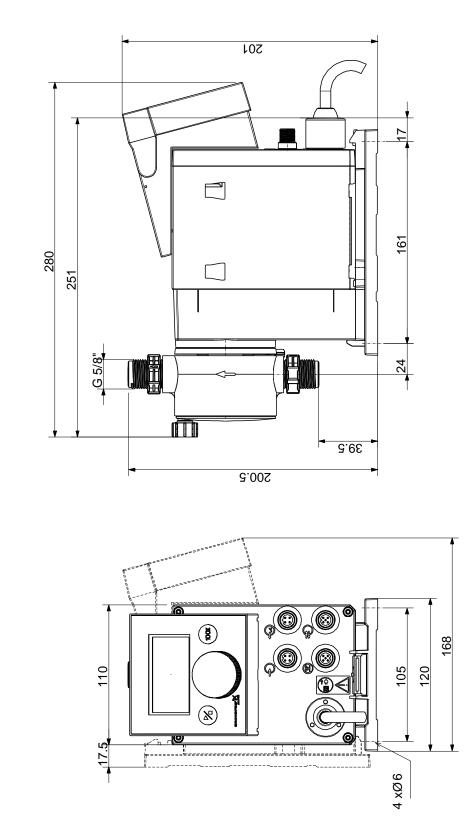


		Date:	20/02/2020
Description	Value		
Others:			
Net weight:	2 kg		
Gross weight:	3 kg		
Color:	RED		
Country of origin:	FR		
Custom tariff no .:	84135040		



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Note! All units are in [mm] unless others are stated. Disclaimer: This simplified dimensional drawing does not show all details.